

# **FCC RF EXPOSURE REPORT**

**FCC ID: KA2SR250NB1**

**Project No. : 1411067**  
**Equipment : Wireless N Service Router**  
**Model : DSR-250N**  
**Applicant : D Link Corporation**  
**Address : Fountain Valley California United States 92708**

**According: : FCC Guidelines for Human Exposure IEEE  
C95.1**

**BTL Inc.**

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## MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)	Note
1		SSR-02521	Dipole	R-SMA	2.85	
2		SSR-02521	Dipole	R-SMA	2.71	

## TEST RESULTS

EUT :	Wireless N Service Router	Model Name :	DSR-250N
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX B MODE /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2.85	1.9275	16.59	45.6037	0.01749647	1	Complies
2.85	1.9275	14.83	30.4089	0.01166676	1	Complies
2.85	1.9275	16.54	45.0817	0.01729619	1	Complies

EUT :	Wireless N Service Router	Model Name :	DSR-250N
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX G MODE /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2.85	1.9275	16.95	49.5450	0.01900861	1	Complies
2.85	1.9275	19.16	82.4138	0.03161916	1	Complies
2.85	1.9275	16.49	44.5656	0.01709820	1	Complies

EUT :	Wireless N Service Router	Model Name :	DSR-250N
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-20M MODE_ Total /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2.85	1.9275	16	39.8107	0.01527391	1	Complies
2.85	1.9275	18.64	73.1139	0.02805113	1	Complies
2.85	1.9275	13.73	23.6048	0.00905629	1	Complies

EUT :	Wireless N Service Router	Model Name :	DSR-250N
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-40M MODE_ Total /CH03, CH06, CH09		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2.85	1.9275	12.18	16.5196	0.00633797	1	Complies
2.85	1.9275	15.86	38.5478	0.01478939	1	Complies
2.85	1.9275	12.18	16.5196	0.00633797	1	Complies

Note: the calculated distance is 20 cm.